

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID: M109784  
Date Received: 02/15/07  
Date Extracted: 02/15/07  
Date Analyzed: 02/16/07  
Matrix: Water  
Units: ug/L (ppb)

Client: Alaskan Copper Works  
Project: PO# M109784, F&BI 702174  
Lab ID: 702174-01 x10  
Data File: 702174-01.016  
Instrument: ICPMS1  
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	523
Nickel	369
Copper	193
Zinc	<10

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank  
Date Received: Not Applicable  
Date Extracted: 02/15/07  
Date Analyzed: 02/16/07  
Matrix: Water  
Units: ug/L (ppb)

Client: Alaskan Copper Works  
Project: PO# M109784, F&BI 702174  
Lab ID: I7-52 mb  
Data File: I7-52 mb.008  
Instrument: ICPMS1  
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 02/26/07

Date Received: 02/15/07

Project: Metro Self Monitor, PO# M109784, F&BI 702174

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY EPA METHOD 200.8

Laboratory Code: 702166-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	3.32	3.82	14	0-20
Nickel	ug/L (ppb)	13.1	14.8	12	0-20
Copper	ug/L (ppb)	2.40	2.37	1	0-20
Zinc	ug/L (ppb)	15.6	14.3	9	0-20

Laboratory Code: 702166-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	3.32	104	50-150
Nickel	ug/L (ppb)	20	13.1	86 b	50-150
Copper	ug/L (ppb)	20	2.40	76	50-150
Zinc	ug/L (ppb)	50	15.6	64 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	97	70-130
Nickel	ug/L (ppb)	20	97	70-130
Copper	ug/L (ppb)	20	96	70-130
Zinc	ug/L (ppb)	50	93	70-130

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

February 26, 2007



INVOICE #07ACU0226-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M109784, F&BI 702174 - Results of testing  
requested by Gerry Thompson for material submitted on February 15, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Amount Due .....	\$ 80.00

FEDERAL TAX ID # (b) (6)

702174

## SAMPLE CHAIN OF CUSTODY

ME 02/15/07

AI 4

Send Report To GERARD Thompson  
 Company ALASKAN COPPER WORKS  
 Address 628 S. HANFORD  
 City, State, ZIP SEATTLE WA 98134  
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLES (signature)

PROJECT NAME/NO.

METRO SELF Monitor

PO #

M109784

REMARKS

Page # \_\_\_\_\_ of \_\_\_\_\_

## TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: \_\_\_\_\_

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	702174				
M109784	01	2/15/07	12:15	H2O	1											

Friedman & Bruya, Inc.  
 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>GERARD Thompson</u>	GERARD Thompson	ACW	2/15/07	1:16pm
Received by: <u>Nhan Phan</u>	Nhan Phan	Fe B I	2/15/07	✓
Relinquished by:				
Received by:				

Samples received at 23 °C



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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February 26, 2007

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 15, 2007 from the Metro Self Monitor, PO# M109784, F&BI 702174 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0226R